NPIC /TSSG/RED-1984-69

1. 1. 17.11

MEMORANDUM	FOR:	Director, National Photographic Interpretation Center
SUBJECT	:	Proposed Contract with

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- 1. This memorandum requests approval for the commitment of funds for a contract. The specific request is stated in Paragraph 7.
- 2. With the increased quality of imagery from intelligence recomneissance systems and the development of improved optical systems to view the imagery, a need currently exists for an improved, more uniform, higher intensity light source for light tables. Past attempts to increase the intensity of light tables have resulted in excessive heat which, in turn, required elaborate coolant systems. In the past, when high intensity light sources (3,000 foot lamberts) were provided to insure adequate illumination to view inegery with high magnification optics, it has been difficult to provide uniform disming down to 100 foot lamberts without discernible flicker The short delivery schedules required -- because these light tables were required to handle imagery from contemporary acquisition systems -- have not permitted manufacturers adequate lead time or enough incentive to thoroughly investigate improved lighting systems. The resulting light tables have often exhibited uneven lighting (differential intensity across the format), inadequate dimming range, large bulky transformers, and costly and hard to maintain coolant systems.
- 3. The proposed program is directed toward developing techniques to obtain a uniform, high intensity light over a 10" by 20" ares without resorting to liquid cooleats; providing uniform disming down to 100 foot lamberts without discernible flicker: limiting the heat rise of the viewing surface to less than 35°F. above ambient, while, at the same time, reducing the size and weight of the transformer required; and keeping the manufacturing cost at a level competitive with present day light sources. The contractor will perform research and will breadboard new lighting system concepts, periodically reporting the results of the research and tests.
- 4. The program is based on an unsolicited proposed submitted by This project has a reasonable chance of successfully accomplishing all of the goals and a good chance of accomplishing individual goals because the contractor is taking new, tech-

NGA Review Complete

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Approved For Release 2005/11/21 CIA-RDP78B04770A001100080001-2

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SUBJECT:	Proposed Contract with mental Work for Improvement of Lamp Performance for Intensity Light Tables at a Cost of]for Experi- or High
tractor h and sound as provid very sati	ound, and imaginative approaches to the problems. as proposed new methods to dissipate heat from the electronic methods of increasing the lamp intensifing an acceptable dimming range. The contractor he sfactorily on previous contracts and has the necessmenths work.	lamp sources ty as well as performed
	The results from this study will be used in writing future light tables and will possibly be used to r	
6. and repor	is appropriate for this projects will be unclassified.	ct. The work
with	It is requested that approval be granted to negotiate to conduct the program descript to exceed	
	Chief, Technical Services & Support	t Gr o up,
	ts: ergraphic's Proposal curement Form	
APPROVED:		2 3 JAN 1970
N	ARTHUR C. LUNDAHL Director ational Photographic Interpretation Center	Date
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TO:	ISSG/RED (Barbara		-
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REMARKS:			
a	fter sign-off		
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FROM:	NPIC/ODir	, to the Solar transfer of the solar transfe	
ROOM NO.	BUILDING	EXTENSION	
FORM NO .241	REPLACES FORM 36-8 WHICH MAY BE USED.	(47))